

# WEST Search History

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DATE: Thursday, July 28, 2005

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L54	6741152	2
<input type="checkbox"/>	L53	L52 and ((magnetic adj resonance) or MRI or NMR)	24
<input type="checkbox"/>	L52	L51 and ((hollow or tube or cylindrical or cylinder or tubular or capillary or capillary) with (strip or tape or ribbon or conduct\$4 or electric\$4 or conduit or rod or bar or winding))	24
<input type="checkbox"/>	L51	L50 and ((fluid\$3 or water or coolant or liquid or cool\$4 or (ethylene adj glycol)) with (inside or internal or inner or "within" or (between with wind\$3)) with (gradient adj coil))	29
<input type="checkbox"/>	L50	L49 and ((fluid\$3 or water or coolant or liquid or cool\$4 or (ethylene adj glycol)) with (inside or internal or inner or "within" or (between with wind\$3)) with (gradient or coil))	169
<input type="checkbox"/>	L49	L48 and ((flow\$4 or moving or move or movement or motion or movable or moved or pass or passing or passed or conduct\$3 or direct\$3 or divert\$3) with (fluid\$3 or water or coolant or liquid))	364
<input type="checkbox"/>	L48	L2 and ((hollow or tube or cylindrical or cylinder or tubular) with (gradient with coil))	1511
<input type="checkbox"/>	L47	L2and ((hollow or tube or cylindrical or cylinder or tubular) with (gradient with coil))	0
<input type="checkbox"/>	L46	5786695	15
<input type="checkbox"/>	L45	6111412	12
<input type="checkbox"/>	L44	19722211	2
<input type="checkbox"/>	L43	19721985	3
<input type="checkbox"/>	L42	6741152	2
<input type="checkbox"/>	L41	19839987	2
<input type="checkbox"/>	L40	L39 and (flat\$4 or planar or pancake or open or thermal\$2 or heat\$4 or temperature)	12
<input type="checkbox"/>	L39	L38 and ((fluid\$3 or water or coolant or liquid or cool\$4 or (ethylene adj glycol)) with (gradient))	19
<input type="checkbox"/>	L38	(heid.in.)	619
<input type="checkbox"/>	L37	L36 and (pipe or plumbing or piping or piped)	5
<input type="checkbox"/>	L36	L35 and ((fluid\$3 or water or coolant or liquid or cool\$4 or (ethylene adj glycol)) with (gradient))	18
<input type="checkbox"/>	L35	L34 and (wound or winding or coiled or coiling or looping or loop or coil or helix or helical\$3 or looped or spiral\$4)	50
		L33 and (flat\$4 or planar or pancake or open or thermal\$2 or heat\$4 or	

<input type="checkbox"/> L34	temperature)	50
<input type="checkbox"/> L33	L32 and (switch\$4)	50
<input type="checkbox"/> L32	L31 and (water or (ethylene adj glycol))	83
<input type="checkbox"/> L31	L30 and (shield\$4)	132
<input type="checkbox"/> L30	L29 and ((magnetic adj resonance) or MRI or NMR)	196
<input type="checkbox"/> L29	L28 and ((transvers\$4 or "x" or "y" or horizontal\$2 or vertical\$2) with (gradient or coil))	419
<input type="checkbox"/> L28	L27 and ((hollow or tube or cylindrical or cylinder or tubular or capillary or capillary) with (strip or tape or ribbon or conduct\$4 or electric\$4 or conduit or rod or bar or winding))	817
<input type="checkbox"/> L27	L26 and ((flow\$4 or moving or move or movement or motion or movable or moved or pass or passing or passed or conduct\$3 or direct\$3 or divert\$3)with (fluid\$3 or water or coolant or liquid))	1563
<input type="checkbox"/> L26	L25 and (flow\$4 or moving or move or movement or motion or movable or moved or pass or passing or passed or conduct\$3 or direct\$3 or divert\$3)	2660
<input type="checkbox"/> L25	L24 and (wound or winding or coiled or coiling or looping or loop or coil or helix or helical\$3 or looped)	2674
<input type="checkbox"/> L24	L23 and (strip or tape or ribbon or conduct\$4 or electric\$4 or conduit or rod or bar or winding)	2674
<input type="checkbox"/> L23	L2 and (fluid\$3 or water or coolant or liquid)	2889
<input type="checkbox"/> L22	L17 and (water or (ethylene adj glycol))	23
<input type="checkbox"/> L21	L20 and (switch\$4)	9
<input type="checkbox"/> L20	L19 and (shield\$4)	10
<input type="checkbox"/> L19	L18 not L13	16
<input type="checkbox"/> L18	L17 and (flat\$4 or planar or pancake or open or thermal\$2 or heat\$4 or temperature)	31
<input type="checkbox"/> L17	L11 and ((magnetic adj resonance) or MRI or NMR)	35
<input type="checkbox"/> L16	L15 and ((magnetic adj resonance) or MRI or NMR)	2
<input type="checkbox"/> L15	L14 and (switch\$4)	7
<input type="checkbox"/> L14	L13 and (shield\$4)	19
<input type="checkbox"/> L13	L12 and (flat\$4 or planar or pancake or open or thermal\$2 or heat\$4 or temperature)	28
<input type="checkbox"/> L12	L10 and (transvers\$4 with (gradient or coil))	31
<input type="checkbox"/> L11	L9 and (transvers\$4 with (gradient or coil))	66
<input type="checkbox"/> L10	L9 and (helix or helical\$2 or spiral\$2)	52
<input type="checkbox"/> L9	L8 and ((hollow or tube or cylindrical or cylinder or tubular) with (strip or tape or ribbon or conduct\$4 or electric\$4 or section))	130
<input type="checkbox"/> L8	L7 and ((flow\$4 or moving or move or movement or motion or movable or moved or pass or passing or passed) with (fluid\$3 or water or coolant or liquid))	218
<input type="checkbox"/> L7	L6 and (flow\$4 or moving or move or movement or motion or movable or moved or pass or passing or passed)	46

<input type="checkbox"/>	L6	L5 and (wound or winding or coiled or looped)	486
<input type="checkbox"/>	L5	L4 and (strip or tape or ribbon or conduct\$4 or electric\$4)	977
<input type="checkbox"/>	L4	L3 and (fluid\$3 or water or coolant or liquid)	1068
<input type="checkbox"/>	L3	L2 and (transvers\$4)	1705
<input type="checkbox"/>	L2	L1 and (hollow or tube or cylindrical or cylinder or tubular)	5056
<input type="checkbox"/>	L1	(gradient with coil)	10728

END OF SEARCH HISTORY

## Hit List

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### Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20050035764 A1

L16: Entry 1 of 2

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050035764

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050035764 A1

TITLE: METHOD AND APPARATUS FOR DIRECTLY COOLING HOLLOW CONDUCTOR WOUND TRANSVERSE GRADIENT COIL BOARDS

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mantone, Anthony	Florence	SC	US	
Clarke, Neil	Florence	SC	US	
Duby, Tomas	Florence	SC	US	
Liu, Qin	Waukesha	WI	US	
Sellers, Michael B.	Florence	SC	US	

US-CL-CURRENT: 324/318; 324/309, 324/315

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Derivatives](#) [Attachments](#) [Claims](#) [TOIC](#) [Drawings](#)

2. Document ID: US 5304933 A

L16: Entry 2 of 2

File: USPT

Apr 19, 1994

US-PAT-NO: 5304933

DOCUMENT-IDENTIFIER: US 5304933 A

TITLE: Surgical local gradient coil

DATE-ISSUED: April 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vavrek; Robert M.	Waukesha	WI		
Myers; Christopher C.	Milwaukee	WI		

US-CL-CURRENT: 324/318; 324/300

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Abstract](#) [Claims](#) [INVC](#) [Drawings](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Term	Documents
MAGNETIC	1525093
MAGNETICS	13444
RESONANCE	304601
RESONANCES	17805
MRI	28944
MRIS	411
NMR	150841
NMRS	258
(15 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
(L15 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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[Generate OACS](#)

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1. Document ID: US 20050146330 A1

L36: Entry 1 of 18

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050146330

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050146330 A1

TITLE: Cylindrical bi-planar gradient coil for MRI

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Teklemariam, Grum	North Andover	MA	US	
Lian, Jianyu	Westford	MA	US	

US-CL-CURRENT: 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#)

2. Document ID: US 20050107870 A1

L36: Entry 2 of 18

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050107870

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050107870 A1

TITLE: Medical device with multiple coating layers

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	

US-CL-CURRENT: 623/1.44

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#)

3. Document ID: US 20050079132 A1

L36: Entry 3 of 18

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050079132

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050079132 A1

TITLE: Medical device with low magnetic susceptibility

PUBLICATION-DATE: April 14, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Gunderman, Robert D.	Honeyoye Falls	NY	US	

US-CL-CURRENT: 424/1.11; 424/422, 424/423, 600/8[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#) 4. Document ID: US 20050035764 A1

L36: Entry 4 of 18

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050035764

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050035764 A1

TITLE: METHOD AND APPARATUS FOR DIRECTLY COOLING HOLLOW CONDUCTOR WOUND TRANSVERSE GRADIENT COIL BOARDS

PUBLICATION-DATE: February 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mantone, Anthony	Florence	SC	US	
Clarke, Neil	Florence	SC	US	
Duby, Tomas	Florence	SC	US	
Liu, Qin	Waukesha	WI	US	
Sellers, Michael B.	Florence	SC	US	

US-CL-CURRENT: 324/318; 324/309, 324/315[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#) 5. Document ID: US 20050025797 A1

L36: Entry 5 of 18

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050025797  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050025797 A1

TITLE: Medical device with low magnetic susceptibility

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard Jay	Rochester	NY	US	

US-CL-CURRENT: 424/422; 424/423, 424/489

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6. Document ID: US 20040254419 A1

L36: Entry 6 of 18

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	
Lanzafame, John	Victor	NY	US	
Weiner, Michael L.	Webster	NY	US	
Connelly, Patrick R.	Rochester	NY	US	

US-CL-CURRENT: 600/8; 424/1.11, 424/422

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7. Document ID: US 20040164738 A1

L36: Entry 7 of 18

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040164738  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040164738 A1

TITLE: Nuclear magnetic resonance analysis of multiple samples

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Raftery, Daniel	Lafayette	IN	US	
McNamara, Ernesto	Alexandria	VA	US	

US-CL-CURRENT: 324/321

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawings](#)

8. Document ID: US 20020130661 A1

L36: Entry 8 of 18

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020130661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020130661 A1

TITLE: Nuclear magnetic resonance analysis of multiple samples

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Raftery, Daniel	Lafayette	IN	US	
Fisher, George G.	Oak Harbor	WA	US	
Petucci, Christopher J.	Memphis	TN	US	
McNamara, Ernesto	Alexandria	VA	US	

US-CL-CURRENT: 324/318; 324/309, 324/321, 324/322

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9. Document ID: US 20020073717 A1

L36: Entry 9 of 18

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020073717

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073717 A1

TITLE: MR scanner including liquid cooled RF coil and method

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Dean, David E.	Hartland	WI	US
Assif, Benny	Ramat Hasharon	IL	
Hugg, James W.	Kiryat Hayim	IL	

US-CL-CURRENT: 62/50.7; 62/259.2, 62/51.1

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10. Document ID: US 6812705 B1

L36: Entry 10 of 18

File: USPT

Nov 2, 2004

US-PAT-NO: 6812705

DOCUMENT-IDENTIFIER: US 6812705 B1

TITLE: Coolant cooled RF body coil

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sellers; Michael Ben	Florence	SC		

US-CL-CURRENT: 324/318; 324/315

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KML](#) | [Drawings](#)

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11. Document ID: US 6696838 B2

L36: Entry 11 of 18

File: USPT

Feb 24, 2004

US-PAT-NO: 6696838

DOCUMENT-IDENTIFIER: US 6696838 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Nuclear magnetic resonance analysis of multiple samples

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raftery; Daniel	Lafayette	IN		
Fisher; George G.	Oak Harbor	WA		
McNamara; Ernesto	Alexandria	VA		

US-CL-CURRENT: 324/321; 324/310, 324/318, 324/322

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12. Document ID: US 6111412 A

L36: Entry 12 of 18

File: USPT

Aug 29, 2000

US-PAT-NO: 6111412

DOCUMENT-IDENTIFIER: US 6111412 A

TITLE: Gradient coil assembly and method of production of same

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boemmel; Franz	Erlangen			DE
Schuster; Johann	Oberasbach			DE
Kaindl; Arthur	Erlangen			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	DOC	Drawn D
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 13. Document ID: US 5886548 A

L36: Entry 13 of 18

File: USPT

Mar 23, 1999

US-PAT-NO: 5886548

DOCUMENT-IDENTIFIER: US 5886548 A

TITLE: Crescent gradient coils

DATE-ISSUED: March 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Wilcher; James K.	Columbia	SC		

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	DOC	Drawn D
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 14. Document ID: US 5748063 A

L36: Entry 14 of 18

File: USPT

May 5, 1998

US-PAT-NO: 5748063

DOCUMENT-IDENTIFIER: US 5748063 A

TITLE: Generating highly uniform electromagnetic field characteristics

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crow; James T.	Albuquerque	NM		

US-CL-CURRENT: 335/299; 324/319, 335/301

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15. Document ID: US 5717371 A

L36: Entry 15 of 18

File: USPT

Feb 10, 1998

US-PAT-NO: 5717371

DOCUMENT-IDENTIFIER: US 5717371 A

TITLE: Generating highly uniform electromagnetic field characteristics

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crow; James Terry	Albuquerque	NM		

US-CL-CURRENT: 335/216; 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Image](#) [Claims](#) [KIMC](#) [Drawings](#)

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16. Document ID: US 5642087 A

L36: Entry 16 of 18

File: USPT

Jun 24, 1997

US-PAT-NO: 5642087

DOCUMENT-IDENTIFIER: US 5642087 A

TITLE: Generating highly uniform electromagnetic field characteristics

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crow; James T.	Albuquerque	NM		

US-CL-CURRENT: 335/216; 324/318, 335/299

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Image](#) [Claims](#) [KIMC](#) [Drawings](#)

17. Document ID: US 5554929 A

L36: Entry 17 of 18

File: USPT

Sep 10, 1996

US-PAT-NO: 5554929

DOCUMENT-IDENTIFIER: US 5554929 A

TITLE: Crescent gradient coils

DATE-ISSUED: September 10, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Wilcher; James K.	Columbia	SC		

US-CL-CURRENT: 324/318

<input type="button" value="Full"/>	<input type="button" value="Title"/>	<input type="button" value="Citation"/>	<input type="button" value="Front"/>	<input type="button" value="Review"/>	<input type="button" value="Classification"/>	<input type="button" value="Date"/>	<input type="button" value="References"/>	<input type="button" value="Claims"/>	<input type="button" value="DCC"/>	<input type="button" value="Drawn Up"/>
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 18. Document ID: US 5424643 A

L36: Entry 18 of 18

File: USPT

Jun 13, 1995

US-PAT-NO: 5424643

DOCUMENT-IDENTIFIER: US 5424643 A

TITLE: Magnetic resonance gradient sheet coils

DATE-ISSUED: June 13, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morich; Michael A.	Mentor	OH		
Patrick; John L.	Chagrin Falls	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/318

<input type="button" value="Full"/>	<input type="button" value="Title"/>	<input type="button" value="Citation"/>	<input type="button" value="Front"/>	<input type="button" value="Review"/>	<input type="button" value="Classification"/>	<input type="button" value="Date"/>	<input type="button" value="References"/>	<input type="button" value="Claims"/>	<input type="button" value="DCC"/>	<input type="button" value="Drawn Up"/>
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Term	Documents
WATER	3937327
WATERS	81617
COOLANT	178946

COOLANTS	11151
LIQUID	2871487
LIQ	360276
LIQS	12871
LIQUIDS	409372
ETHYLENE	709654
ETHYLENES	3121
GLYCOL	519012
(L35 AND ((FLUID\$3 OR WATER OR COOLANT OR LIQUID OR COOL\$4 OR (ETHYLENE ADJ GLYCOL)) WITH (GRADIENT))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	18

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1. Document ID: US 20050146330 A1

L53: Entry 1 of 24

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050146330

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050146330 A1

TITLE: Cylindrical bi-planar gradient coil for MRI

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Teklemariam, Grum	North Andover	MA	US	
Lian, Jianyu	Westford	MA	US	

US-CL-CURRENT: 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

2. Document ID: US 20050093543 A1

L53: Entry 2 of 24

File: PGPB

May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050093543

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050093543 A1

TITLE: Thermal management apparatus and uses thereof

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Arik, Mehmet	Niskayuna	NY	US	
Rohling, Kenneth William	Niskayuna	NY	US	
Watkins, Ronald Dean	Niskayuna	NY	US	

US-CL-CURRENT: 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

3. Document ID: US 20050035764 A1

L53: Entry 3 of 24

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050035764  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050035764 A1

TITLE: METHOD AND APPARATUS FOR DIRECTLY COOLING HOLLOW CONDUCTOR WOUND TRANSVERSE GRADIENT COIL BOARDS

PUBLICATION-DATE: February 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mantone, Anthony	Florence	SC	US	
Clarke, Neil	Florence	SC	US	
Duby, Tomas	Florence	SC	US	
Liu, Qin	Waukesha	WI	US	
Sellers, Michael B.	Florence	SC	US	

US-CL-CURRENT: 324/318; 324/309, 324/315

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawings](#)

 4. Document ID: US 20050030028 A1

L53: Entry 4 of 24

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050030028  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050030028 A1

TITLE: APPARATUS FOR ACTIVE COOLING OF AN MRI PATIENT BORE IN CYLINDRICAL MRI SYSTEMS

PUBLICATION-DATE: February 10, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Clarke, Neil	Florence	SC	US	
Sellers, Michael B.	Florence	SC	US	
Allford, Michael L.	Florence	SC	US	
Mantone, Anthony	Florence	SC	US	

US-CL-CURRENT: 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawings](#)

5. Document ID: US 20030141870 A1

L53: Entry 5 of 24

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030141870

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030141870 A1

TITLE: Magnetic resonance apparatus with an electrical conductor arrangement for electrical supply to a conduit

PUBLICATION-DATE: July 31, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schuster, Johann	Oberasbach		DE	
Stocker, Stefan	Erlangen		DE	

US-CL-CURRENT: 324/318; 324/320, 324/321, 324/322

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawings</a>
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 6. Document ID: US 20020156595 A1

L53: Entry 6 of 24

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156595

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020156595 A1

TITLE: Predictive thermal control used with a vacuum enclosed coil assembly of a magnetic resonance imaging device

PUBLICATION-DATE: October 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hedlund, Carl R.	Waterford	NY	US	
Emeric, Pierre R.	Milwaukee	WI	US	

US-CL-CURRENT: 702/132

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawings</a>
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 7. Document ID: US 20020148604 A1

L53: Entry 7 of 24

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020148604

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020148604 A1

TITLE: Method and system to regulate cooling of a medical imaging device

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Emeric, Pierre R.	Milwaukee	WI	US	
Hedlund, Carl R.	Waterford	NY	US	

US-CL-CURRENT: 165/206

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [References](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawings](#)

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8. Document ID: US 20020073717 A1

L53: Entry 8 of 24

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020073717

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073717 A1

TITLE: MR scanner including liquid cooled RF coil and method

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dean, David E.	Hartland	WI	US	
Assif, Benny	Ramat Hasharon		IL	
Hugg, James W.	Kiryat Hayim		IL	

US-CL-CURRENT: 62/50.7; 62/259.2, 62/51.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [References](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawings](#)

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9. Document ID: US 20010033168 A1

L53: Entry 9 of 24

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010033168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010033168 A1

TITLE: Electrical coil

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME Heid, Oliver	CITY Gunzenhausen	STATE	COUNTRY DE	RULE-47
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US-CL-CURRENT: 324/322; 324/318

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWMC</a>	<a href="#">Drawings</a>
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10. Document ID: US 6909283 B2

L53: Entry 10 of 24

File: USPT

Jun 21, 2005

US-PAT-NO: 6909283

DOCUMENT-IDENTIFIER: US 6909283 B2

TITLE: Method and system to regulate cooling of a medical imaging device

DATE-ISSUED: June 21, 2005

## INVENTOR-INFORMATION:

NAME Emeric; Pierre R.	CITY Milwaukee	STATE WI	ZIP CODE	COUNTRY
Hedlund; Carl R.	Waterford	NY		

US-CL-CURRENT: 324/300; 324/306

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWMC</a>	<a href="#">Drawings</a>
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11. Document ID: US 6812705 B1

L53: Entry 11 of 24

File: USPT

Nov 2, 2004

US-PAT-NO: 6812705

DOCUMENT-IDENTIFIER: US 6812705 B1

TITLE: Coolant cooled RF body coil

DATE-ISSUED: November 2, 2004

## INVENTOR-INFORMATION:

NAME Sellers; Michael Ben	CITY Florence	STATE SC	ZIP CODE	COUNTRY
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US-CL-CURRENT: 324/318; 324/315

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWMC</a>	<a href="#">Drawings</a>
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12. Document ID: US 6774631 B2

L53: Entry 12 of 24

File: USPT

Aug 10, 2004

US-PAT-NO: 6774631

DOCUMENT-IDENTIFIER: US 6774631 B2

TITLE: Magnetic resonance gradient coil with a heat insulator disposed between the electrical conductor and the carrier structure

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heid; Oliver	Gunzenhausen			DE

US-CL-CURRENT: 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIND](#) | [Drawn](#)

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13. Document ID: US 6771072 B2

L53: Entry 13 of 24

File: USPT

Aug 3, 2004

US-PAT-NO: 6771072

DOCUMENT-IDENTIFIER: US 6771072 B2

TITLE: Magnetic resonance apparatus with an electrical conductor arrangement for electrical supply to a conduit

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Johann	Oberasbach			DE
Stocker; Stefan	Erlangen			DE

US-CL-CURRENT: 324/318; 324/322

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIND](#) | [Drawn](#)

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14. Document ID: US 6741152 B1

L53: Entry 14 of 24

File: USPT

May 25, 2004

US-PAT-NO: 6741152

DOCUMENT-IDENTIFIER: US 6741152 B1

TITLE: Directly cooled magnetic coil, particularly a gradient coil, and method for manufacturing conductors therefor

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Arz; Winfried	Erlangen	DE
Stocker; Stefan	Erlangen	DE

US-CL-CURRENT: 335/300; 174/15.1, 174/15.6, 174/47, 336/62[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn Ds](#) 15. Document ID: US 6516282 B2

L53: Entry 15 of 24

File: USPT

Feb 4, 2003

US-PAT-NO: 6516282

DOCUMENT-IDENTIFIER: US 6516282 B2

\*\* See image for Certificate of Correction \*\*TITLE: Predictive thermal control used with a vacuum enclosed coil assembly of a magnetic resonance imaging device

DATE-ISSUED: February 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hedlund; Carl R.	Waterford	NY		
Emeric; Pierre R.	Milwaukee	WI		

US-CL-CURRENT: 702/132; 355/53[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn Ds](#) 16. Document ID: US 6441614 B1

L53: Entry 16 of 24

File: USPT

Aug 27, 2002

US-PAT-NO: 6441614

DOCUMENT-IDENTIFIER: US 6441614 B1

TITLE: Filler material for magnet resonant system self-shielded gradient coil assemblies

DATE-ISSUED: August 27, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William Alan	Schenectady	NY		
Hedeen; Robert Arvin	Clifton Park	NY		
Mantone; Anthony	Brookfield	WI		

US-CL-CURRENT: 324/318; 324/307, 324/309, 324/320, 324/322[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn Ds](#)

17. Document ID: US 6111412 A

L53: Entry 17 of 24

File: USPT

Aug 29, 2000

US-PAT-NO: 6111412

DOCUMENT-IDENTIFIER: US 6111412 A

TITLE: Gradient coil assembly and method of production of same

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boemmel; Franz	Erlangen			DE
Schuster; Johann	Oberasbach			DE
Kaindl; Arthur	Erlangen			DE

US-CL-CURRENT: 324/318[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawings](#) 18. Document ID: US 5886548 A

L53: Entry 18 of 24

File: USPT

Mar 23, 1999

US-PAT-NO: 5886548

DOCUMENT-IDENTIFIER: US 5886548 A

TITLE: Crescent gradient coils

DATE-ISSUED: March 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Wilcher; James K.	Columbia	SC		

US-CL-CURRENT: 324/318[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawings](#) 19. Document ID: US 5661445 A

L53: Entry 19 of 24

File: USPT

Aug 26, 1997

US-PAT-NO: 5661445

DOCUMENT-IDENTIFIER: US 5661445 A

TITLE: Superconductive magnet assembly

DATE-ISSUED: August 26, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		
Good; Jeremy A.	London			GB

US-CL-CURRENT: 335/216; 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Drawn](#)

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20. Document ID: US 5554929 A

L53: Entry 20 of 24

File: USPT

Sep 10, 1996

US-PAT-NO: 5554929

DOCUMENT-IDENTIFIER: US 5554929 A

TITLE: Crescent gradient coils

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Wilcher; James K.	Columbia	SC		

US-CL-CURRENT: 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Drawn](#)

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21. Document ID: US 5539367 A

L53: Entry 21 of 24

File: USPT

Jul 23, 1996

US-PAT-NO: 5539367

DOCUMENT-IDENTIFIER: US 5539367 A

TITLE: Superconducting gradient shields in magnetic resonance imaging magnets

DATE-ISSUED: July 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Bu-Xin	Florence	SC		
Tsavalas; Yannis P.	Florence	SC		
Eckels; Phillip W.	Florence	SC		

US-CL-CURRENT: 335/301; 324/318, 335/216, 361/19

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	TOC	Drawings
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22. Document ID: US 5424643 A

L53: Entry 22 of 24

File: USPT

Jun 13, 1995

US-PAT-NO: 5424643

DOCUMENT-IDENTIFIER: US 5424643 A

TITLE: Magnetic resonance gradient sheet coils

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morich; Michael A.	Mentor	OH		
Patrick; John L.	Chagrin Falls	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	TOC	Drawings
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23. Document ID: JP 11076199 A

L53: Entry 23 of 24

File: JPAB

Mar 23, 1999

PUB-NO: JP411076199A

DOCUMENT-IDENTIFIER: JP 11076199 A

TITLE: ANTENNA FOR MAGNETIC RESONANCE DEVICE

PUBN-DATE: March 23, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
EBERLER, LUDWIG	
HEUBES, PETER	
MORITZ, MICHAEL	
STOECKEL, BERND	

INT-CL (IPC): A61 B 5/055; G01 R 33/32

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	TOC	Drawings
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24. Document ID: GB 2409279 A, US 6812705 B1

L53: Entry 24 of 24

File: DWPI

Jun 22, 2005

DERWENT-ACC-NO: 2004-793504

DERWENT-WEEK: 200541

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TITLE: Magnetic resonance imaging system used in medical procedure for obtaining detailed images of patient, comprises patient bore, gradient coil assembly, radio frequency coil assembly, copper stub, and non-conducting manifold

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Document](#) [Claims](#) [EPOC](#) [Drawn P.](#)

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Term	Documents
MAGNETIC	1525093
MAGNETICS	13444
RESONANCE	304601
RESONANCES	17805
MRI	28944
MRIS	411
NMR	150841
NMRS	258
(52 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	24
(L52 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	24

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